



Environmental and Analytical Services-Since 1994
California State Accredited Laboratory in Accordance with ELAP Certificate # 2332

Prepared for: DCOR, LLC
290 Maple Court Suite #290
Ventura, CA 93003
Attn: Jay Rao

Report Date: September 19, 2017
Laboratory Number: 171723
Project Name: PF Edith Produced Water: RP
Sampled by: Jose A.

Enclosed are the analysis results for samples received September 7, 2017 with the Chain of Custody document. The sample was received in good condition, at 11.3°C, and it was identified and assigned the laboratory ID number listed below:

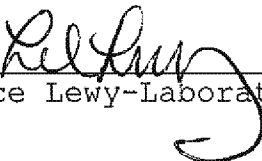
SAMPLE DESCRIPTION

CAS LAB NUMBER ID

Produced Water

171723-01

By my signature below, I certify that the results contained in this laboratory report comply with applicable standards for certification by the California Department of Public Health's Environmental Laboratories Accreditation Program (ELAP), both technically and for completeness, and that, based on my inquiry of the person or persons directly responsible for performing the analyses, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete.


Lance Lewy-Laboratory Director

If you have any further questions or concerns, please contact me at your convenience. This report consists of 15 pages excluding the cover letter and the Chain of Custody.

This report shall not be reproduced except in full without the written approval of CAS. The test results reported represent only the item being tested and may not represent the entire material from which the sample was taken.



Analytical Services, Inc.

Environmental and Analytical Services-Since 1994
California State Accredited Laboratory in Accordance with ELAP Certificate # 2332

CERTIFICATE OF ANALYSIS

Client: DCOR, LLC (PF Edith)
CAS LAB NO: 171723
Analyst: MGR

Date Sampled: 09/07/17
Date Received: 09/07/17
Sample Matrix: Water

TOTAL METALS SUMMARY

COMPOUND	RESULTS	UNITS	DF	PQL	METHOD	ANALYZED
=====						
CAS Lab#: 171723-01						
Sample ID: Produced Water						
Cadmium	BQL	mg/L	1	0.01	200.7	09/14/17
Chromium	BQL	mg/L	1	0.005	200.7	09/14/17
Copper	BQL	mg/L	1	0.03	200.7	09/14/17
Lead	BQL	mg/L	1	0.005	200.7	09/14/17
Nickel	BQL	mg/L	1	0.02	200.7	09/14/17
Silver	BQL	mg/L	1	0.002	200.7	09/14/17
Zinc	BQL	mg/L	1	0.05	200.7	09/14/17
Manganese	0.08	mg/L	1	0.005	200.7	09/14/17
Mercury	BQL	µg/L	1	0.5	200.8	09/14/17
Selenium	BQL	mg/L	1	0.01	200.7	09/14/17
Arsenic	BQL	mg/L	1	0.01	200.7	09/14/17

mg/L: Milligrams/Liter (ppm)
µg/L: Micrograms/Liter (ppb)
PQL: Practical Quantitation Limit
BQL: Below Quantitation Limit
DF: Dilution Factor

CERTIFICATE OF ANALYSISClient: DCOR, LLC (Edith)
CAS LAB NO: 171723
Analyst: ANDate Sampled: 09/11/17
Date Received: 09/11/17
Sample Matrix: Water**WET CHEMISTRY SUMMARY**

COMPOUND	RESULTS	UNITS	DF	PQL	MDL	EPA METHOD	DATE ANALYZED
----------	---------	-------	----	-----	-----	---------------	------------------

CAS Lab#: 171723-01

Sample ID: Produced Water

Ammonia (as N)	100	mg/L	1	0.1	0.02	4500NH3D	09/11/17
Total Cyanide	ND	mg/L	1	0.02	0.004	4500CN-E	09/09/17
Total Phenol	0.17	mg/L	1	0.1	0.02	420.1	09/09/17
Total Sulfide*	0.052J	mg/L	5	0.1	0.02	4500S-2D	09/11/17

*Due to color interferences, lower dilution is not possible

PQL: Practical Quantitation Limit
MDL: Method Detection Limit
mg/L: Milligrams/Liter (ppm)
ND: Not Detected



Laboratories, Inc.

Environmental Testing Laboratory Since 1949

Date of Report: 09/15/2017

Rosa Hernandez

Capco Analytical Services, Inc.

2978 Seaborg Avenue, Suite 4

Ventura, CA 93003

Client Project: 171723 (Edith - Annual)

BCL Project: Water Samples

BCL Work Order: 1725222

Invoice ID: B279292

Enclosed are the results of analyses for samples received by the laboratory on 9/7/2017. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Vanessa Sandoval
Client Service Rep

Stuart Buttram
Technical Director

Certifications: CA ELAP #1186; NV #CA00014; OR ELAP #4032-001; AK UST101

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Metals Analysis

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Chain of Custody and Cooler Receipt Form for 1725222 Page 1 of 2

Chain of Custody

BC

LABORATORIES

4100 Atlas Court Bakersfield, Ca. 93308
(661) 322-1011 • FAX (661) 322-1918 • www.bclabs.com

Chain of Custody

17-2522

Required Fields:

TEMP:

Client Company Name *

Report Allocation *

Phone * 805 644-1095

FAX * 805 644 4497

Capco Analytical Services

Rosa Hernandez

Email: rhenandez@capcoenv.com

ANALYSIS REQUESTED

Address *

City *

State *

Zip *

93003

Carbon Capties:

Hexavalent Chromium

Ventura

CA

891543

BCL Queue #

Project Information

171723 (Edith - Annual)

Fax

BDD

Regulatory Compliance

Electronic Data Transfer:

System No. *

Have you had your samples results sent?

QC Request:

Result Request **

Sewerage

Matrix *

Comments / Synthesis Code

Client

Sample #

Boiloff

Time

171723-04 (Produce Water)

water

preserved on 9/07/17 pH 9.06 GP

SECRET HOLDING TIME

SECRET

Sample #

Date

171723-04 (Produce Water)

water

preserved on 9/07/17 pH 9.06 GP

SECRET HOLDING TIME

SECRET

Sample #

Date

171723-04 (Produce Water)

water

preserved on 9/07/17 pH 9.06 GP

SECRET HOLDING TIME

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Sample #

Date

171723-04 (Produce Water)

water

preserved on 9/07/17 pH 9.06 GP

SECRET HOLDING TIME

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Sample #

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water

preserved on 9/07/17 pH 9.06 GP

SECRET HOLDING TIME

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preserved on 9/07/17 pH 9.06 GP

SECRET HOLDING TIME

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Sample #

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171723-04 (Produce Water)

water

preserved on 9/07/17 pH 9.06 GP

SECRET HOLDING TIME

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Sample #

Date

171723-04 (Produce Water)

water

preserved on 9/07/17 pH 9.06 GP

SECRET HOLDING TIME

SECRET

Sample #

Date

171723-04 (Produce Water)

water

preserved on 9/07/17 pH 9.06 GP

SECRET HOLDING TIME

SECRET

Sample #

Date

171723-04 (Produce Water)

water

preserved on 9/07/17 pH 9.06 GP

SECRET HOLDING TIME

SECRET

Sample #

Date

171723-04 (Produce Water)

water

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Environmental Testing Laboratory Since 1949

Chain of Custody and Cooler Receipt Form for 1725222 Page 2 of 2

BC LABORATORIES INC.		COOLER RECEIPT FORM		Page 1 Of 1							
Submission #: 1725222											
SHIPPING INFORMATION		SHIPPING CONTAINER		FREE LIQUID							
Fed Ex <input type="checkbox"/> UPS <input checked="" type="checkbox"/> Ontrac <input type="checkbox"/> Hand Delivery <input type="checkbox"/> BC Lab Field Service <input checked="" type="checkbox"/> Other <input type="checkbox"/> (Specify) _____		Ice Chest <input type="checkbox"/> None <input type="checkbox"/> Box <input type="checkbox"/> Other <input type="checkbox"/> (Specify) _____		YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>							
Refrigerant: Ice <input checked="" type="checkbox"/> Blue Ice <input type="checkbox"/> None <input type="checkbox"/> Other <input type="checkbox"/> Comments: _____											
Custody Seals: Ice Chest <input type="checkbox"/> Containers <input type="checkbox"/> None <input checked="" type="checkbox"/> Comments: _____											
All samples received? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		All samples containers intact? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		Description(s) match COC? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>							
COC Received <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		Emissivity: 0.95 Container: PE Thermometer ID: 206		Date/Time: 9/17/2015							
Temperature: (A) 1.5 °C / (C) 1.0 °C				Analyst Init: RAR							
SAMPLE CONTAINERS		SAMPLE NUMBERS									
		1	2	3	4	5	6	7	8	9	10
QT PE UNPRES											
4oz / 8oz / 16oz PE UNPRES											
2oz Cr ⁴ 202		A									
QT INORGANIC CHEMICAL METALS											
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz											
PT CYANIDE											
PT NITROGEN FORMS											
PT TOTAL SULFIDE											
2oz NITRATE/NITRITE											
T TOTAL ORGANIC CARBON											
T CHEMICAL OXYGEN DEMAND											
1A PHENOLICS											
5ml VOA VIAL TRAVEL BLANK											
0ml VOA VIAL											
T EPA 1664											
T ODOR											
ADIOLOGICAL											
ACTERIOLOGICAL											
5ml VOA VIAL- 504											
EPA 505/608/8080											
EPA 515.1/8150											
EPA 525											
EPA 525 TRAVEL BLANK											
ml EPA 547											
ml EPA 531.1											
EPA 548											
EPA 549											
EPA 5015M											
EPA 5270											
/16oz/32oz AMBER											
/16oz/32oz JAR											
L SLEEVE											
VIAL											
STIC BAG											
LAR BAG											
ROUS IRON											
ORE											
RT KIT											
MA CANISTER											
ents:											
le Numbering Completed By: M											

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Laboratories, Inc.

Environmental Testing Laboratory Since 1949

Capco Analytical Services, Inc.
2978 Seaborg Avenue, Suite 4
Ventura, CA 93003

Reported: 09/15/2017 14:33
Project: Water Samples
Project Number: 171723 (Edith - Annual)
Project Manager: Rosa Hernandez

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1725222-01	COC Number:	---	Receive Date:	09/07/2017 20:15
	Project Number:	---	Sampling Date:	09/07/2017 05:10
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	171723-04 (Produced Water)	Lab Matrix:	Water
	Sampled By:	Client	Sample Type:	Water

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Ventura, CA 93003

Reported: 09/15/2017 14:33
Project: Water Samples
Project Number: 171723 (Edith - Annual)
Project Manager: Rosa Hernandez

Metals Analysis

BCL Sample ID:	1725222-01	Client Sample Name:	171723-04 (Produced Water), 9/7/2017 5:10:00AM, Client					
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	ND	ug/L	0.20	0.031	EPA-218.6	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-218.6	09/08/17	09/08/17 16:45	EMW	IC-4	1	BJ0671

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2978 Seaborg Avenue, Suite 4
Ventura, CA 93003

Reported: 09/15/2017 14:33
Project: Water Samples
Project Number: 171723 (Edith - Annual)
Project Manager: Rosa Hernandez

Metals Analysis

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: B J0671						
Hexavalent Chromium	B J0671-BLK1	ND	ug/L	0.20	0.031	

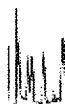
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2978 Seaborg Avenue, Suite 4
Ventura, CA 93003

Reported: 09/15/2017 14:33
Project: Water Samples
Project Number: 171723 (Edith - Annual)
Project Manager: Rosa Hernandez

Metals Analysis

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab
								Percent Recovery	RPD	Quals
QC Batch ID: B[0671										
Hexavalent Chromium	B[0671-BS1	LCS	19.768	20.000	ug/L	98.8		90 - 110		

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Report ID: 1000648818

4100 Atlas Court Bakersfield, CA 93308 (661) 327-4911 FAX (661) 327-1918 www.bclabs.com

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ED_006450_00002606-00011



Laboratories, Inc.

Environmental Testing Laboratory Since 1949



Capco Analytical Services, Inc.
2978 Seaborg Avenue, Suite 4
Ventura, CA 93003

Reported: 09/15/2017 14:33
Project: Water Samples
Project Number: 171723 (Edith - Annual)
Project Manager: Rosa Hernandez

Metals Analysis

Quality Control Report - Precision & Accuracy

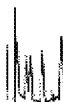
Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits		
									RPD	Percent Recovery	Lab Quals
QC Batch ID: B[10671		Used client sample: N									
Hexavalent Chromium	DUP	1725279-01	0.15500	0.15800		ug/L	1.9		10		J
	MS	1725279-01	0.15500	19.714	20.202	ug/L		96.8		90 - 110	
	MSD	1725279-01	0.15500	19.725	20.202	ug/L	0.1	96.9	10	90 - 110	

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2978 Seaborg Avenue, Suite 4
Ventura, CA 93003

Reported: 09/15/2017 14:33
Project: Water Samples
Project Number: 171723 (Edith - Annual)
Project Manager: Rosa Hernandez

Notes And Definitions

J Estimated Value (CLP Flag)
MDL Method Detection Limit
ND Analyte Not Detected
PQL Practical Quantitation Limit

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Quality Control Section



Analytical Services, Inc.

Environmental and Analytical Services-Since 1994
California State Accredited Laboratory in Accordance with ELAP Certificate # 2332

QUALITY CONTROL SECTION

Sample ID: Method Blank
CAS LAB NO: 171723-MB

Analyst: AN/AV

WET CHEMISTRY SUMMARY

COMPOUND	RESULTS	UNITS	DF	PQL	MDL	METHOD	ANALYZED
Ammonia (as N)	ND	mg/L	1	0.1	0.02	4500NH3D	09/11/17
Total Cyanide	ND	mg/L	1	0.02	0.004	4500CN-E	09/09/17
Total Phenol	ND	mg/L	1	0.1	0.02	420.1	09/09/17
Total Sulfide	ND	mg/L	1	0.02	0.004	4500S-2D	09/11/17

PQL: Practical Quantitation Limit
MDL: Method Detection Limit
mg/L: Milligrams/Liter (ppm)
ND: Not Detected



Analytical Services, Inc.

Environmental and Analytical Services-Since 1994
California State Accredited Laboratory in Accordance with ELAP Certificate # 2332

QUALITY CONTROL SECTION

Sample ID: Method Blank
CAS LAB NO: 171723-MB

Analyst: MGR

TOTAL METALS SUMMARY

COMPOUND	RESULT	UNITS	DF	PQL	METHOD	ANALYZED
Cadmium	BQL	mg/L	1	0.01	200.7	09/14/17
Chromium	BQL	mg/L	1	0.005	200.7	09/14/17
Copper	BQL	mg/L	1	0.03	200.7	09/14/17
Lead	BQL	mg/L	1	0.005	200.7	09/14/17
Nickel	BQL	mg/L	1	0.02	200.7	09/14/17
Silver	BQL	mg/L	1	0.002	200.7	09/14/17
Zinc	BQL	mg/L	1	0.05	200.7	09/14/17
Manganese	BQL	mg/L	1	0.005	200.7	09/14/17
Mercury	BQL	ug/L	1	0.5	200.8	09/14/17
Selenium	BQL	mg/L	1	0.01	200.7	09/14/17
Arsenic	BQL	mg/L	1	0.01	200.7	09/14/17

mg/L: Milligrams/Liter (ppm)
ug/L: Micrograms/Liter (ppb)
PQL: Practical Quantitation Limit
BQL: Below Quantitation Limit
DF: Dilution Factor

CAPCO ANALYTICAL

SERVICES

1536 Eastman Avenue
Ventura, CA 93003
(805) 644-1095 Fax 644-9947
CHAIN OF CUSTODY RECORD

REPORT:

Fax
Company
Address

(805) 535-2075
DCOR, LLC.
290 Maple Court, Suite 290
Ventura CA, 93003

BILL TO:

P.O. #
Company:
Address

DCOR, LLC.

Phone: 805 535-2078

Contact: Jay Rao

Company:

Cyanide

DCOR, LLC.

9/14

9/15

PROJ. NO.

PROJECT NAME

Edith

Produced Water:RP

SAMPLER'S SIGNATURE:

CONTAINER TYPES
A=Amber B=Brass G=Glass
P=Plastic V=Vial O=Other

Print Name:

Matrix

Analysis

Remarks

Produced Water Temp: 170

9/14
9/15

Ammonia, Phenol

Cu, Cd, Pb, Mn, Hg, Ni, Se, Ag, Zn, As

Hexavalent Chromium

Cyanide

Total Sulfide

Produced Water Temp: 170

9/14
9/15

Ammonia, Phenol

Cu, Cd, Pb, Mn, Hg, Ni, Se, Ag, Zn, As

Hexavalent Chromium

Cyanide

Total Sulfide

Produced Water Temp: 170

9/14
9/15

Ammonia, Phenol

Cu, Cd, Pb, Mn, Hg, Ni, Se, Ag, Zn, As

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9/14
9/15

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Cu, Cd, Pb, Mn, Hg, Ni, Se, Ag, Zn, As

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Cyanide

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Produced Water Temp: 170

9/14
9/15

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9/15

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9/14
9/15

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Total Sulfide

Produced Water Temp: 170

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Hexavalent Chromium

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Total Sulfide

Produced Water Temp: 170

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Cu, Cd, Pb, Mn, Hg, Ni, Se, Ag, Zn, As

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Cyanide

Total Sulfide

Produced Water Temp: 170

9/14
9/15

Ammonia, Phenol

Cu, Cd, Pb, Mn, Hg, Ni, Se, Ag, Zn, As

Hexavalent Chromium

Cyanide

Total Sulfide

Produced Water Temp: 170

9/14
9/15

Ammonia, Phenol

Cu, Cd, Pb, Mn, Hg, Ni, Se, Ag, Zn, As

Hexavalent Chromium

Cyanide

Total Sulfide

Produced Water Temp: 170

9/14
9/15

Ammonia, Phenol

Cu, Cd, Pb, Mn, Hg, Ni, Se, Ag, Zn, As

Hexavalent Chromium

Cyanide

Total Sulfide

Produced Water Temp: 170

9/14
9/15

Ammonia, Phenol

Cu, Cd, Pb, Mn, Hg, Ni, Se, Ag, Zn, As

Hexavalent Chromium

Cyanide

Total Sulfide

Produced Water Temp: 170

9/14
9/15

Ammonia, Phenol

Cu, Cd, Pb, Mn, Hg, Ni, Se, Ag, Zn, As

Hexavalent Chromium

Cyanide

Total Sulfide

Produced Water Temp: 170

9/14
9/15

Ammonia, Phenol

Cu, Cd, Pb, Mn, Hg, Ni, Se, Ag, Zn, As

Hexavalent Chromium

Cyanide

Total Sulfide

Produced Water Temp: 170

9/14
9/15

Ammonia, Phenol

Cu, Cd, Pb, Mn, Hg, Ni, Se, Ag, Zn, As

Hexavalent Chromium

Cyanide

Total Sulfide

Produced Water Temp: 170

9/14
9/15

Ammonia, Phenol

Cu, Cd, Pb, Mn, Hg, Ni, Se, Ag, Zn, As

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Cyanide

Total Sulfide

Produced Water Temp: 170

9/14
9/15

Ammonia, Phenol

Cu, Cd, Pb, Mn, Hg, Ni, Se, Ag, Zn, As

Hexavalent Chromium

Cyanide

Total Sulfide

Produced Water Temp: 170

9/14
9/15

Ammonia, Phenol

Cu, Cd, Pb, Mn, Hg, Ni, Se, Ag, Zn, As

Hexavalent Chromium

Cyanide

Total Sulfide

Produced Water Temp: 170

9/14
9/15

Ammonia, Phenol

Cu, Cd, Pb, Mn, Hg, Ni, Se, Ag, Zn, As

Hexavalent Chromium

Cyanide

Total Sulfide

Produced Water Temp: 170

9/14
9/15

Ammonia, Phenol

Cu, Cd, Pb, Mn, Hg, Ni, Se, Ag, Zn, As

Hexavalent Chromium

Cyanide

Total Sulfide

Produced Water Temp: 170

9/14
9/15

Ammonia, Phenol

Cu, Cd, Pb, Mn, Hg, Ni, Se, Ag, Zn, As

Hexavalent Chromium

Cyanide

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